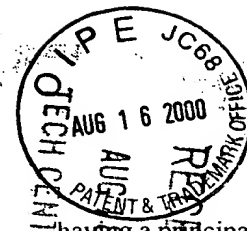


## POWER OF ATTORNEY FROM ASSIGNEE



Time Domain Corporation, a corporation of Alabama, having a principal place of business at 7057 Old Madison Pike, Huntsville, Alabama 35806, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on (1) 7/26/2000; (2) 7/26/2000; (3) 7/6/2000; (4) 7/16/2000; (5) 7/6/2000; and (6) 7/17/2000 of an invention known as Apparatus, System and Method for Flip Modulation in an Impulse Radio Communications System (Attorney Docket No. 1659.0870000) which is disclosed and claimed in a patent application of the same title by the inventors (1) Larry W. Fullerton; (2) James L. Richards; (3) Ivan A. Cowie; (4) David M. Dickson; (5) Vernon R. Brethour; and (6) Preston Jett (said application filed on March 29, 2000 at the U.S. Patent and Trademark Office, having Application Number 09/537,692).

The Assignee hereby appoints the following U.S. attorneys to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith: James S. Finn, Esq., Reg. No. 38,450 of Time Domain Corporation, 7057 Old Madison Pike, Huntsville, Alabama 35806; Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; Samuel L. Fox, Esq., Reg. No. 30,353; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Esq., Reg. No. 36,203; Raz E. Fleshner, Esq., Reg. No. 34,331; John M. Covert, Esq., Reg. No. 38,759; and Linda E. Alcorn, Esq., Reg. No. 39,588. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.  
1100 New York Avenue, N.W.  
Suite 600  
Washington, D.C. 20005-3934  
U.S.A.

Direct phone calls to 202-371-2600.

FOR: Time Domain Corporation

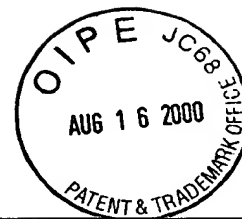
SIGNATURE: x *Peggy L. Sammon*

BY: Peggy L. Sammon

TITLE: Senior Vice President - Strategic Planning

DATE: x *Aug 9, 2000*

# Certificate Under 37 C.F.R. § 3.73(b)



Applicant/Patent Owner: Larry W. Fullerton et al.

Application No./Patent No.: 09/537,692 Filed/Issue Date: March 29, 2000

Entitled: Apparatus, System and Method for Flip Modulation in an Impulse Radio Communications System

Time Domain Corporation, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest, or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

**[NOTE:]** A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: x Aug 9, 2000

Name: Peggy L. Sammon

Title: Senior Vice President - Strategic Planning

Signature: x Peggy L. Sammon

## ASSIGNMENT

**DO NOT FORWARD  
TO ASSIGNMENT BRANCH  
NOT FOR RECORDATION**

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: (1) Larry W. Fullerton; (2) James L. Richards; (3) Ivan A. Cowie; (4) David M. Dickson; (5) Vernon R. Brethour; and (6) Preston Jett, the undersigned inventors hereby sell and assign to Time Domain Corporation (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

*check applicable box(es)* ☒ for the United States of America (as defined in 35 U.S.C. § 100),  
☒ and throughout the world,

(a) in the invention(s) known as Apparatus, System and Method for Flip Modulation in an Impulse Radio Communications System for which application(s) for patent in the United States of America has (have) been executed by the undersigned on (1) ~~7~~/26/00; (2) ~~7~~/26/00; (3) ~~7~~/6/00; (4) ~~7~~/12/00; (5) ~~7~~/6/00; and (6) ~~7~~/17/00 (also known as United States Application No. 09/537,692, filed March 29, 2000, in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant James S. Finn, Esquire, Registration No. 38,450 of Time Domain Corporation, 7057 Old Madison Pike, Huntsville, Alabama 35806; and Robert Greene Sterne, Esquire, Registration

No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; Raz E. Fleshner, Esquire, Registration No. 34,331; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

(1) Date: x 7-26-00 Signature of Inventor: x [Signature]  
Larry W. Fullerton

(2) Date: x 7-26-00 Signature of Inventor: x [Signature]  
James L. Richards

(3) Date: x 7-6-2000 Signature of Inventor: x [Signature]  
Ivan A. Cowie

(4) Date: x 07-12-00 Signature of Inventor: x [Signature]  
David M. Dickson

(5) Date: x July 6, 2000 Signature of Inventor: x [Signature]  
Vernon R. Brethour

(6) Date: x July 17, 2000 Signature of Inventor: x [Signature]  
Preston Jett

JRK/ugj

PAUSERS\AGJONES\EGROUP\JRK\1659-087.assignment